



SPEC[®] CFP2006 Result

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Sun Microsystems

SPECfp[®]2006 = **Not Run**

Sun Blade X6270 (Sun Studio, autopar, base-only)

SPECfp_base2006 = **44.8**

CPU2006 license: 6

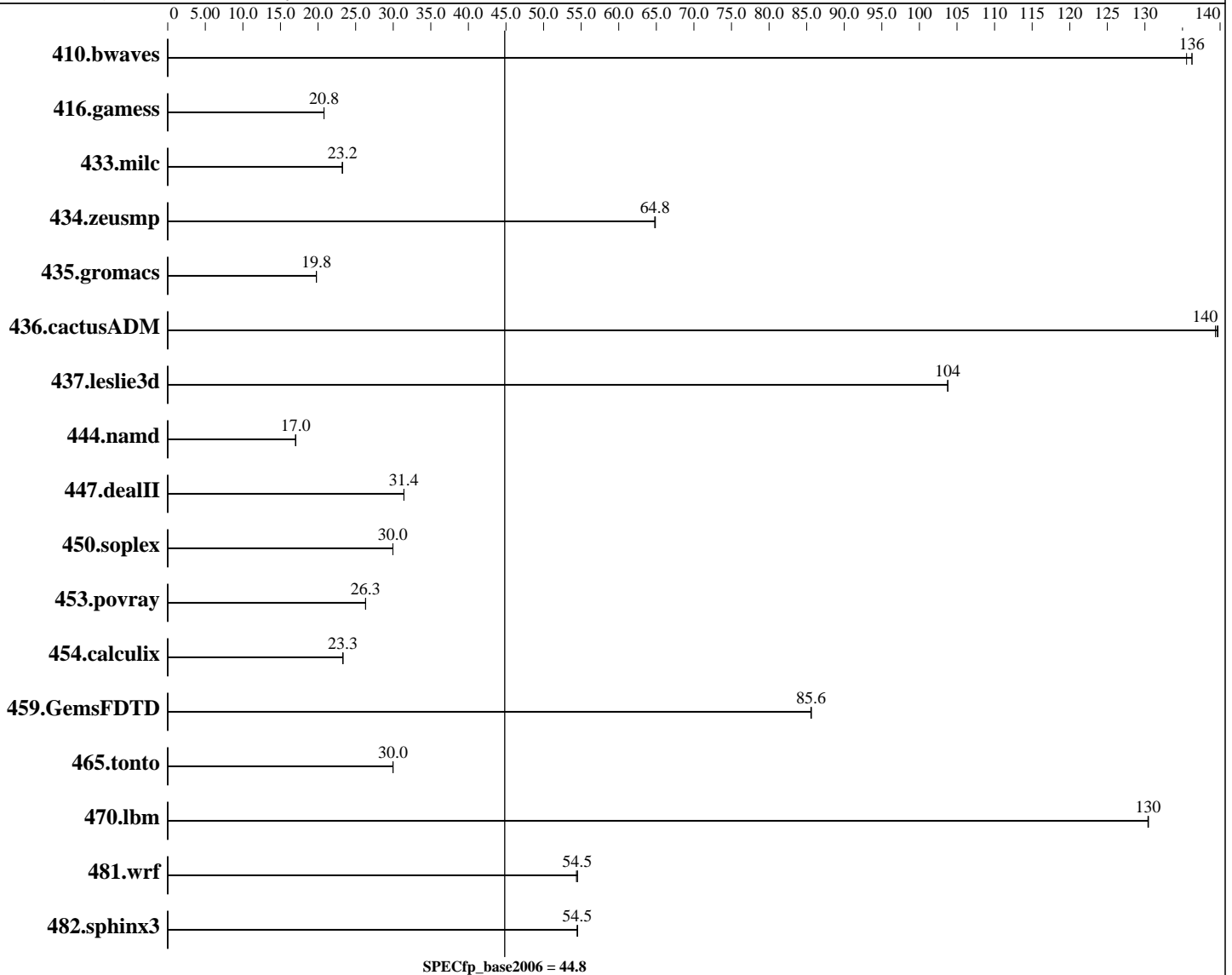
Test date: May-2009

Test sponsor: Sun Microsystems

Hardware Availability: Apr-2009

Tested by: Sun Microsystems

Software Availability: Jun-2009



Hardware

CPU Name: Intel Xeon X5570
 CPU Characteristics: Intel Turbo Boost Technology up to 3.33 GHz
 CPU MHz: 2933
 FPU: Integrated
 CPU(s) enabled: 8 cores, 2 chips, 4 cores/chip, 2 threads/core
 CPU(s) orderable: 1 or 2 chips
 Primary Cache: 32 KB I + 32 KB D on chip per core
 Secondary Cache: 256 KB I+D on chip per core

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Software

Operating System: OpenSolaris 2008.11
 Compiler: Sun Studio 12 Update 1 (internal build 41.1)
 Auto Parallel: Yes
 File System: zfs with gzip compression
 System State: Default
 Base Pointers: 64-bit
 Peak Pointers: Not Applicable

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L3 Cache: 8 MB I+D on chip per chip
 Other Cache: None
 Memory: 24 GB (6 x 4 GB DDR3-1333)
 Disk Subsystem: 1 x 146 GB Sun 10,000 RPM SAS
 Other Hardware: None

Other Software: none

Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	100	136	99.7	136	<u>99.7</u>	<u>136</u>						
416.gamess	942	20.8	<u>942</u>	<u>20.8</u>	942	20.8						
433.milc	395	23.2	395	23.2	<u>395</u>	<u>23.2</u>						
434.zeusmp	<u>140</u>	<u>64.8</u>	140	64.8	140	64.9						
435.gromacs	361	19.8	361	19.8	<u>361</u>	<u>19.8</u>						
436.cactusADM	<u>85.6</u>	<u>140</u>	85.7	139	85.5	140						
437.leslie3d	<u>90.6</u>	<u>104</u>	90.6	104	90.6	104						
444.namd	471	17.0	471	17.0	<u>471</u>	<u>17.0</u>						
447.dealII	364	31.4	364	31.4	<u>364</u>	<u>31.4</u>						
450.soplex	<u>278</u>	<u>30.0</u>	278	30.0	278	30.0						
453.povray	<u>202</u>	<u>26.3</u>	202	26.3	202	26.3						
454.calculix	354	23.3	<u>354</u>	<u>23.3</u>	354	23.3						
459.GemsFDTD	124	85.6	124	85.6	<u>124</u>	<u>85.6</u>						
465.tonto	328	30.0	328	30.0	<u>328</u>	<u>30.0</u>						
470.lbm	105	130	<u>105</u>	<u>130</u>	105	130						
481.wrf	<u>205</u>	<u>54.5</u>	205	54.5	205	54.4						
482.sphinx3	358	54.5	<u>358</u>	<u>54.5</u>	357	54.5						

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

Submit Notes

The config file option 'submit' was used, along with 'pbind', to assign processes to cores.

Operating System Notes

ulimit -s 131072 (shell): increases stack
For more information on shell/tuning parameters, please see the "Platform settings" section of the flags file.

```

/etc/system parameters
tune_t_fsflushr=10
autoup=900
set lpg_alloc_prefer=1
set zfs:zfs_arc_max = 0x10000000

```



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Platform Notes

AMIBIOS Build Date 1/26/09 ID 07.01.36.00
Default BIOS settings used except:
Intel VT-d: Disabled. VT-d, if enabled, supports remapping of I/O DMA transfers for virtualization.

General Notes

Environment variables set by runspec before the start of the run:
OMP_NUM_THREADS = "8"
SUNW_MP_PROCBIND = "true"
SUNW_MP_THR_IDLE = "SPIN"

Base Compiler Invocation

C benchmarks:

cc

C++ benchmarks:

CC

Fortran benchmarks:

f90

Benchmarks using both Fortran and C:

cc f90

Base Portability Flags

410.bwaves: -DSPEC_CPU_LP64
416.gamess: -DSPEC_CPU_LP64
433.milc: -DSPEC_CPU_LP64
434.zeusmp: -DSPEC_CPU_LP64
435.gromacs: -DSPEC_CPU_LP64
436.cactusADM: -DSPEC_CPU_LP64
437.leslie3d: -DSPEC_CPU_LP64
444.namd: -DSPEC_CPU_LP64
447.deallI: -DSPEC_CPU_LP64
450.soplex: -DSPEC_CPU_LP64
453.povray: -DSPEC_CPU_LP64
454.calculix: -DSPEC_CPU_LP64
459.GemsFDTD: -DSPEC_CPU_LP64
465.tonto: -DSPEC_CPU_LP64
470.lbm: -DSPEC_CPU_LP64

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Base Portability Flags (Continued)

481.wrf: -DSPEC_CPU_LP64 -DSPEC_CPU_WORDS_LITTLEENDIAN
482.sphinx3: -DSPEC_CPU_LP64

Base Optimization Flags

C benchmarks:

-fast -xipo=2 -m64 -xvector=simd -xautopar

C++ benchmarks:

-fast -xipo=2 -m64 -xvector=simd -library=stlport4

Fortran benchmarks:

-fast -xipo=2 -m64 -xvector=simd -xautopar

Benchmarks using both Fortran and C:

-fast(cc) -xipo=2 -m64 -xvector=simd -xautopar -fast(f90)

Base Other Flags

C benchmarks:

-V -# -xjobs=16

C++ benchmarks:

-verbose=diags,version -xjobs=16

Fortran benchmarks:

-V -v -xjobs=16

Benchmarks using both Fortran and C:

-V -# -xjobs=16 -v

The flags file that was used to format this result can be browsed at

http://www.spec.org/cpu2006/flags/Sun-OpenSolaris-Studio-x86_64.20090710.01.html

You can also download the XML flags source by saving the following link:

http://www.spec.org/cpu2006/flags/Sun-OpenSolaris-Studio-x86_64.20090710.01.xml



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For other inquiries, please contact webmaster@spec.org.

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